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BIOLOGICAL EFFECTS OF OIL POLLUTION-BIBLIOGRAPHY. A COLLECTION OF REFERENCES CONCERNING THE EFFECTS OF OIL ON BIOLOGICAL SYSTEMS

Donna R. Radcliffe, et al

Federal Water Pollution Control Administration
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BIOLOGICAL EFFECTS OF
OIL POLLUTION - BIBLIOGRAPHY

A Collection of References Concerning the Effects of Oil on Biological Systems

by

Donna R. Radcliffe and Thomas A. Murphy, Ph.D.

Edison Water Quality Laboratory

Northeast Region Research and Development Program

Edison, New Jersey, 08817

for the

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DEPARTMENT OF THE INTERIOR

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FWPCA Review Notice

This report has been reviewed by the Federal Water Pollution Control Administration and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Federal Water Pollution Control Administration, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

ABSTRACT

References on the biological effects of oil are listed according to the following categories: Publications on the General Aspects of Oil Pollution, Reports of Oil Spill Incidents, General Biological Effects of Oil and of Specific Oil Spill Incidents, Effects of Oil on Birds, Effects of Oil on Fish, Effects of Oil on Shellfish, Effects of Oil on Freshwater Invertebrates, Effects of Oil on Plants, Effects of Oil on Dissolved Oxygen, Carcinogenic Effects of Oil, and Miscellaneous Biological Reports on Oil.

KEY WORDS: Aquatic animals, aquatic plants, bibliographies, biodegradation, birds, environmental effects, marine animals, marine plants, oil, water pollution effects.

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INTRODUCTION

The occurrence of several highly-publicized oil pollution incidents during the past three years has focused the attention of the public, the scientific community and governmental regulatory agencies on the biological effects of spilled oil. As indicated by the widely varying expert opinions expressed during major spills, this is a topic of confusion and controversy. Part of this confusion derives from the inaccessibility of many of the reports dealing with the biological effects of oil - reports from a bewildering diversity of sources, often not dealing primarily with the problem of spilled oil.

Several recent bibliographies on the general aspects of oil pollution list a number of excellent biological references, but omit some of the significant reports in the older literature and from the less common sources. As an aid in dispelling some of the confusion surrounding this subject, the following bibliography was compiled.

Sources consulted include:

1. The bibliographies listed on page 3 .

2. A search of the following sources:

   a. Chemical Abstracts: June 1967 through June 1969.

   b. Biological Abstracts: June 1967 through June 1969.

   c. Water Pollution Abstracts: December 1969 through April 1969.

   d. Selected Water Resources Abstracts: through June 1969.

   e. Commercial Fisheries Abstracts: November 1969 through June 1969.

   f. Current Literature on Air and Water Conservation: through April 1969.

3. The bibliography of Water Quality Criteria: (see p. 5)

Reports on oil pollution incidents are published routinely by the Smithsonian Institution's Center for Short-lived Phenomena (see p. 8) and by the Marine Pollution Bulletin (Prof. R. B. Clarke, Editor, Zoology Dept., University of Newcastle-on-Tyne, England).

Abbreviations in this bibliography are according to the World List of Scientific Periodicals, 1965, Butterworth's Scientific Publications, London.

Since this bibliography is intended to be revised and updated periodically, any comments regarding errors, omissions, etc. are welcome and should be addressed to:

Chief, Oil & Hazardous Materials Research Unit
Water Quality Laboratory
FWPCA, U. S. Dept. of the Interior
Edison, New Jersey 08817

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Reports of Oil Spill Incidents

NOTE: The Center for Short-lived Phenomena, Smithsonian Institution, Cambridge, Mass., issues brief reports on the occurrence and effects of pollution incidents, including those involving oil. "Notification Reports" provide initial documentation for a given incident. Subsequent information on the sameincident is issued in "Information Reports". Oil spills reported to date include:

1.	Witwater Oil Spill	13 Dec '68	Event No. 64-68
2.	Wakulla Oil Slick	27 Dec '68	68-68
3.	Santa Barbara Oil Spill	30 Jan '69	9-69
4.	Cook Inlet Spill	4 Mar '69	24-69
5.	Louisiana Oil Spill	16 Mar '69	25-69
6.	Chicago River Oil Spill	21 Mar '69	27-69
7.	Dutch Coast Oil Spill	28 Feb '69	39-69
8.	Sandy Hook Oil Spill	10 Mar '69	47-69
9.	Hamilton Trader Oil Spill	30 Apr '69	49-69
10.	Piscatagus River Oil Spill	May '69	54-69
11.	Alma Oil Spill	16 Jun '69	68-69
12.	Cook Inlet Oil Spill II	23 Jun '69	74-69

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6 Title

BIOLOGICAL EFFECTS OF OIL POLLUTION - BIBLIOGRAPHY, A COLLECTION OF REFERENCES CONCERNING THE EFFECTS OF OIL ON BIOLOGICAL SYSTEMS

10 Author(s)

Donna R. Radcliffe
Thomas A. Murphy

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Oil spillage

27 Abstract

References on the biological effects of oil are listed according to the following categories: Publications on the General Aspects of Oil Pollution, Reports of Oil Spill Incidents, General Biological Effects of Oil and of Specific Oil Spill Incidents, Effects of Oil on Birds, Effects of Oil on Fish, Effects of Oil on Shellfish, Effects of Oil on Freshwater Invertebrates, Effects of Oil on Plants, Effects of Oil on Dissolved Oxygen, Carcinogenic Effects of Oil, and Miscellaneous Biological Reports on Oil.

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